INTERNATIONAL SEARCH REPORT

nal Application No

PCT/US2004/033063 CLASSIFICATION OF SUBJECT MATTER
PC 7 F01N3/023 F01N F01N3/027 F01N3/035 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) F01N IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with Indication, where appropriate, of the relevant passages 1,3-6,9,US 4 404 795 A (KOBASHI KIYOSHI ET AL) X 13-15,18 20 September 1983 (1983-09-20) column 4, line 36 - column 10, line 32; figures 2,5 X GB 892 659 A (SCHWEIZERISCHE LOKOMOTIV) 1,2,4,5, 28 March 1962 (1962-03-28) 12.18 the whole document US 4 902 309 A (HEMPENSTALL GEORGE T) 1,3-7,18X 20 February 1990 (1990-02-20) 8 abstract 1,3-6,EP 1 333 169 A (EBERSPAECHER J GMBH & CO) X 10,11, 6 August 2003 (2003-08-06) 16,18 paragraph '0019! - paragraph '0037!; claim 1; figure 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Χl Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person sidiled document referring to an oral disclosure, use, exhibition or other means ments, su in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 31/01/2005 24 January 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 RL - 2280 HV Rijsstijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

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PCT/US2004/033063

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.								
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(EP 1 020 620 A (VOLKSWAGENWERK AG) 19 July 2000 (2000-07-19) paragraph '0020! - paragraph '0031!	1,2,4-7, 18						
3								

INTERNATIONAL SEARCH REPORT

Information on patent family members

Interi nal Application No PCT/US2004/033063

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4404795	Α	20-09-1983	JP JP JP	1390402 C 57008311 A 61057925 B	23-07-1987 16-01-1982 09-12-1986
GB 892659	Α	28-03-1962	NONE		
US 4902309	Α	20-02-1990	NONE		
EP 1333169	Α	06-08-2003	DE EP	10204073 A1 1333169 A1	14-08-2003 06-08-2003
EP 1020620	A	19-07-2000	DE AT DE EP	19900967 A1 261544 T 59908807 D1 1020620 A1	20-07-2000 15-03-2004 15-04-2004 19-07-2000